

FIG 1

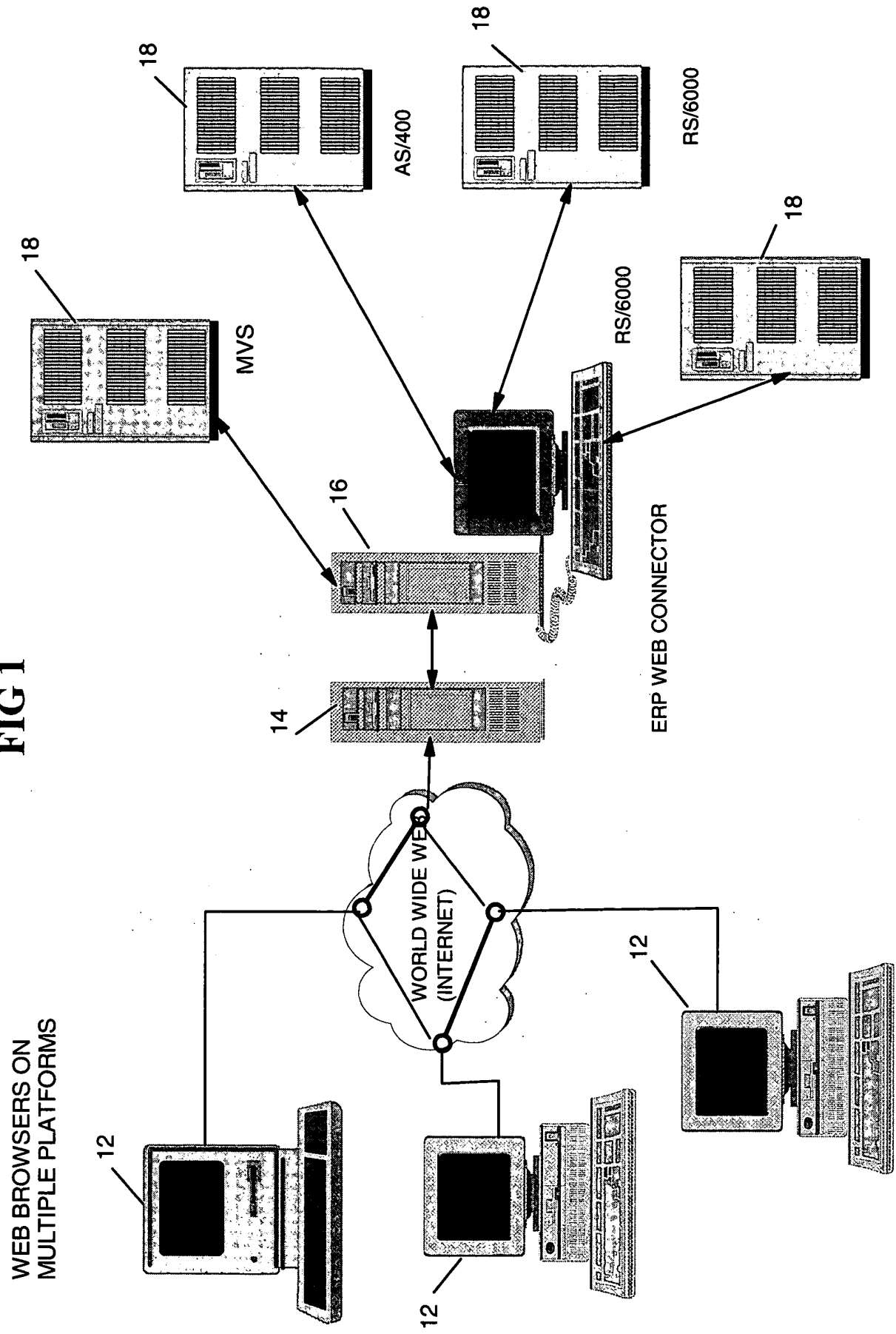
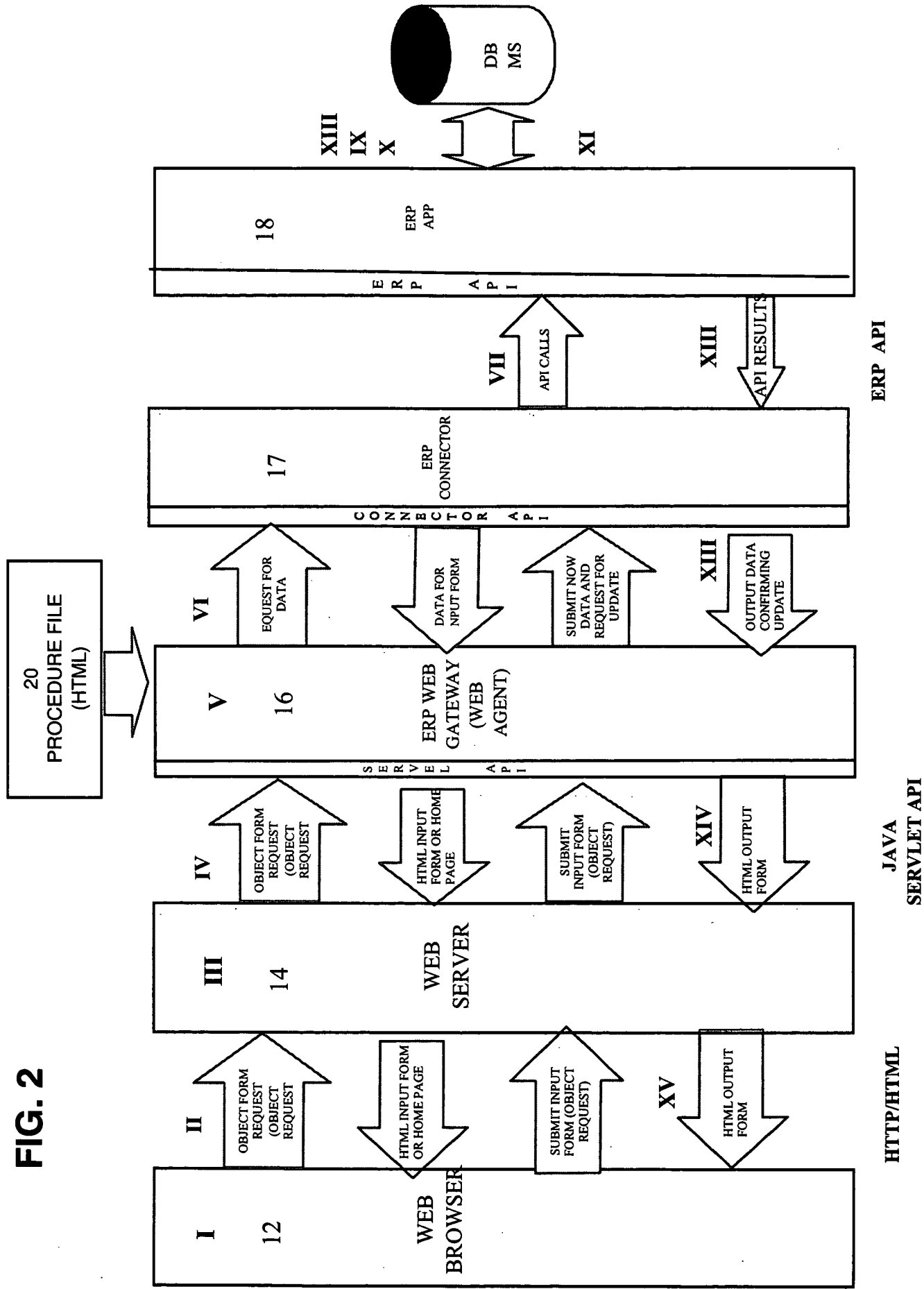
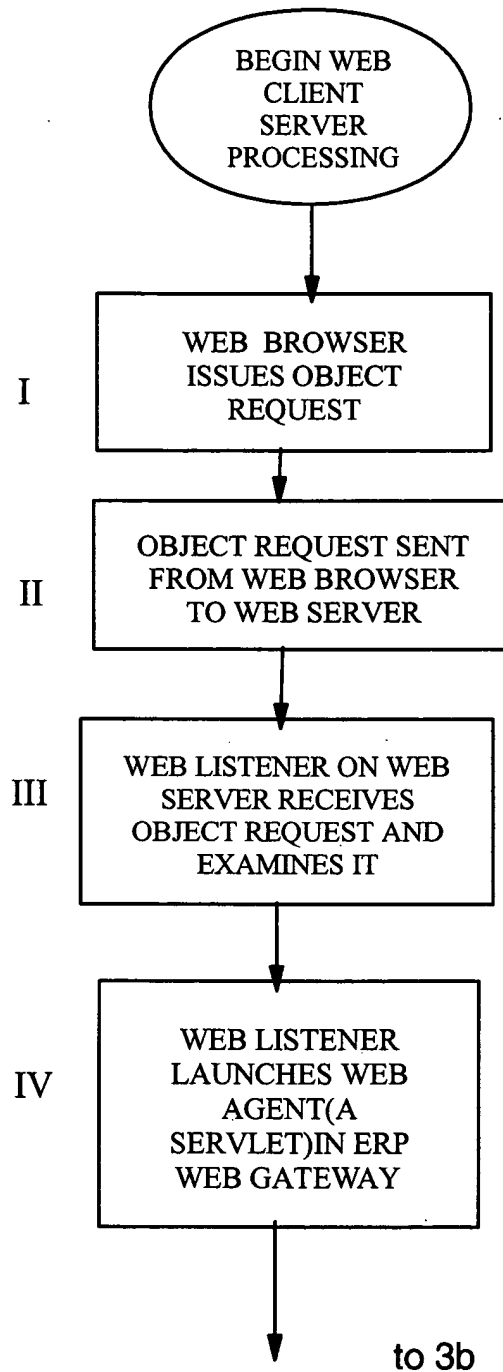


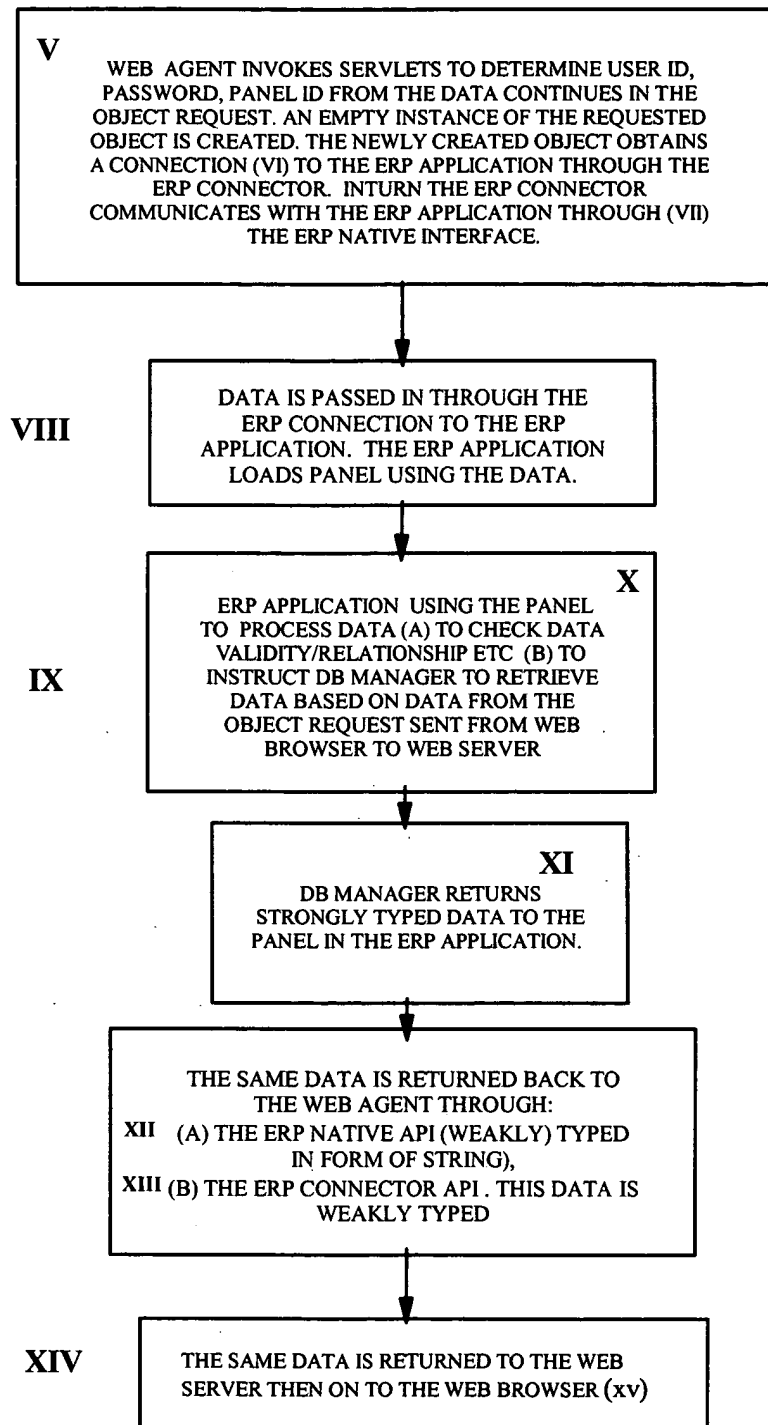
FIG. 2



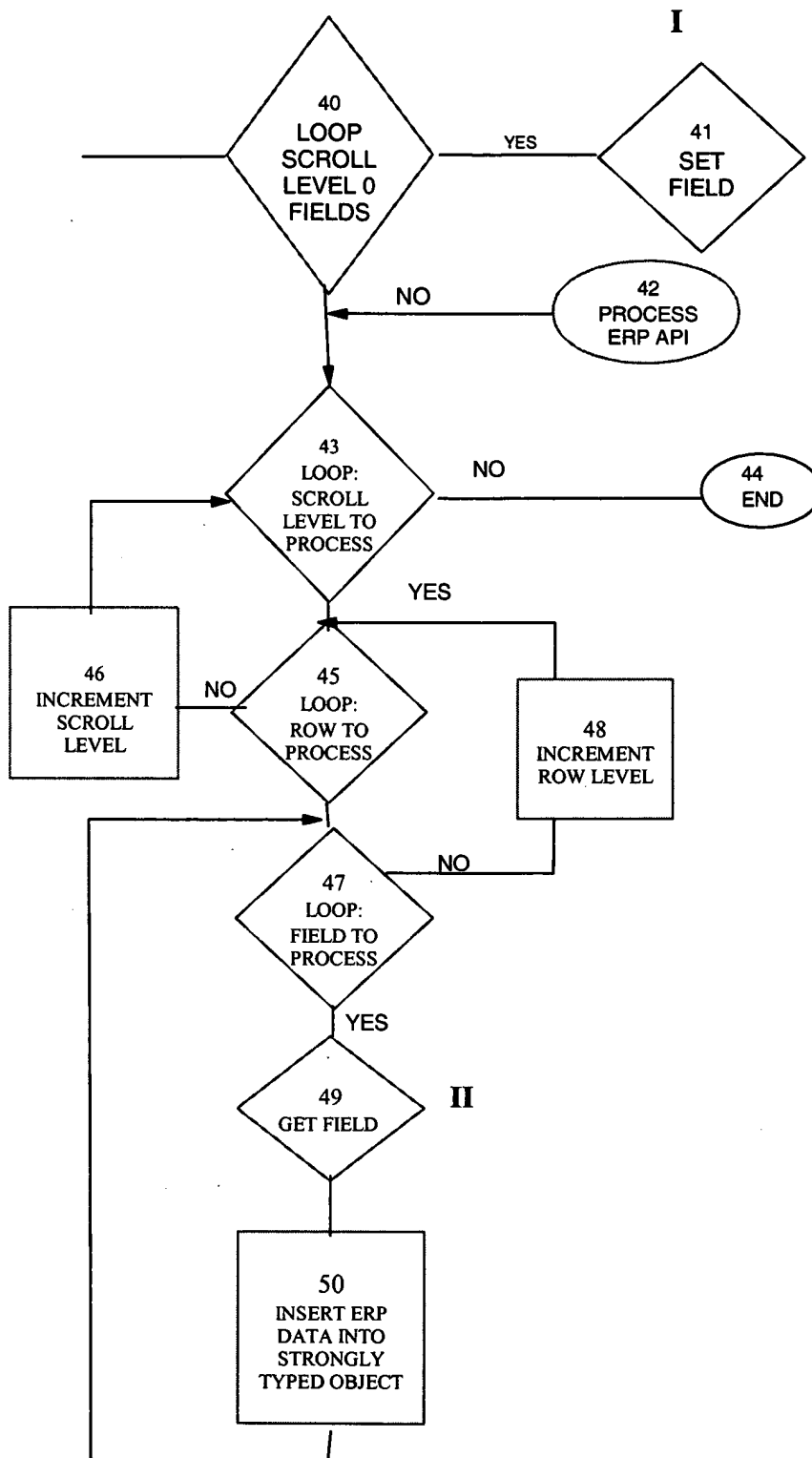
**FIG. 3a**



**FIG. 3b**



**FIG. 5**



**FIG. 6**

**STUDENT COURSE LIST**

51 FIELD	JOHN SMITH	
52 SCROLL LEVEL 1		
53 ROW 1	55 FIELD 1	56 FIELD 2
	57 MATH	100
54 ROW 2	58 ENGLISH	101

**WEEKLY TYPED**

**FIG. 7**

STUDENT COURSE LIST

70

59 STUDENT NAME	<div>JOHN SMITH</div>	
60 COURSE LIST		
COURSE 1 61		
NAME 62	<div>MATH</div>	
NUMBER 63	<div>100</div>	
COURSE 2 64		
NAME 65	<div>ENGLISH</div>	
NUMBER 66	<div>101</div>	

**STRONGLY TYPED**

**FIG. 8**

DEVELOPMENT  
ENVIRONMENT

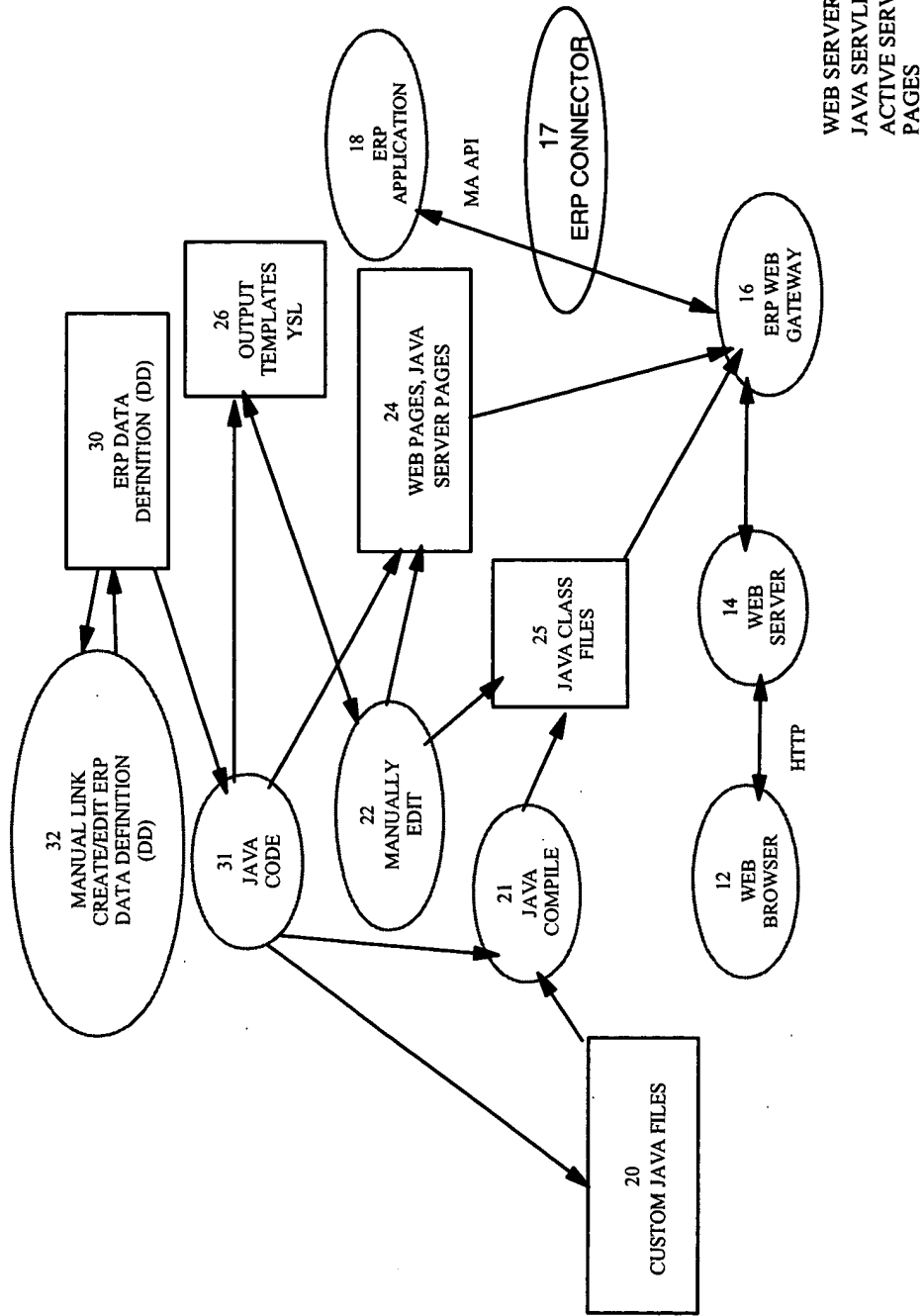




FIG. 9  
DEFINING A SUB-GRAPH OF DATA OBJECTS

